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ABSTRACT

The present invention relates to a method for producing non grain-oriented magnetic steel sheets in which hot strip is produced from an input stock such as cast slabs, strip, roughed strip, or thin slabs, made of steel comprising (in weight %) C: 0.001 - 0.05 %; Si: ≤ 1.5 %; Al: ≤ 0.4 % with Si + 2Al ≤ 1.7 %; Mn: 0.1 - 1.2 %; if necessary up to a total of 1.5 % of alloying additions such as P, Sn, Sb, Zr, V, Ti, N, Ni, Co, Nb and/or B; with the remainder being iron as well as the usual accompanying elements; in that the input stock is hot-rolled directly from the casting heat or after preceding reheating to a reheating temperature between min. 1000 °C and max. 1180 °C in several deformation passes, and subsequently coiled, wherein during hot-rolling at least the first deformation pass takes place in the austenitic region and at least one further deformation pass takes place in the two-phase mixing region austenite / ferrite, and wherein during rolling in the two-phase mixing region a total deformation ε_h of at least 35 % is achieved.